


SPECIFICATIONS: ASTM A449-14 TYPE 1

ROUND BAR: YIELD STRENGTH-1" AND LESS 92 KSI MIN
 YIELD STRENGTH->1" AND 1 1/2" INCL. 81 KSI MIN
 YIELD STRENGTH->1 1/2" AND 3" INCL. 58 KSI MIN
 TENSILE STRENGTH-1" AND LESS 120 KSI MIN
 TENSILE STRENGTH->1" AND 1 1/2" INCL. 105 KSI MIN
 TENSILE STRENGTH->1 1/2" AND 3" INCL. 90 KSI MIN
 ELONGATION-2"-14% MIN.
 REDUCTION AREA- 35% MIN.

GALVANIZE: ASTM-A153, CLASS C
 NUTS: ASTM A563-GR DH, ANSI B18.2.2

THREADS: UNIFIED NATIONAL COARSE
 ANSI B1.1 CLASS 2A
 THREADS ARE ROLLED OR CUT.

WASHERS: ASTM F-436

				FULLY THREADED STUD GR A449		
				REVISION: A	P.O. COMPANY:	DRAWN BY: JEP
				DATE:	P.O. NUMBER:	CHECKED BY: AJS
				CONTRACTOR:		
				J. H. Botts LLC		
				DWG. NO.		
A	FOR RELEASE			<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">BRIDGE & HWY. METAL PRODUCTS</div> <div style="text-align: center;">  </div> <div style="border: 1px solid black; padding: 2px;">CERTIFIED FABRICATOR</div> </div> <p style="text-align: center; margin-top: 5px;">253 E. BRUCE JOLIET, IL 60432</p>		
REV #	DESCRIPTION	DATE	BY			
	REVISIONS					
				1 of 1		